# PATENT COOPERATION TREATY



## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 10104SG219MH	FOR FURTHER ACTION	See Form PCT/IPEA/416									
International application No: PCT/SG2004/000281	International filing date (day/month/year) 3 September 2004	Priority date (day/month/year) 3 September 2003									
International Patent Classification (IPC) or	national classification and IPC										
Int. Cl. <sup>7</sup> E04B 1/343, 1/19, F16S 3/00											
Applicant NATIONAL UNIVERSITY OF SINGAPORE et al											
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.											
2. This REPORT consists of a total of 3 sheets, including this cover sheet.											
3. This report is also accompanied by ANN	NEXES, comprising:										
a. X (sent to the applicant and to the	International Bureau) a total of 6 sheets,	as follows:									
x sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the											
Administrative Instruction	s).										
	rlier sheets, but which this Authority conside ational application as filed, as indicated in ite										
Box.											
a sequence listing and/or table r	u only) a total of (indicate type and number of elated thereto, in computer readable form onle ee Section 802 of the Administrative Instruct	y, as indicated in the Supplemental Box									
4. This report contains indications relating		(OLD).									
X Box No. I Basis of the repor											
Box No. II Priority		,									
Box No. III Non-establishmen	nt of opinion with regard to novelty, inventive	step and industrial applicability									
Box No. IV Lack of unity of it	nvention										
X Box No. V Reasoned stateme citations and expl	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
Box No. VI Certain document	·										
Box No. VII Certain defects in	ertain defects in the international application										
Box No. VIII Certain observation	ons on the international application										
Date of submission of the demand	Date of completion of	the report									
10 March 2005	18 October 2005										
Name and mailing address of the IPEA/AU	Authorized Officer										
AUSTRALIAN PATENT OFFICE		$\Omega o$									
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#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SG2004/000281

Bo	x No. I	Basis of the report
1.		d to the language, this report is based on the international application in the language in which it was filed, unless indicated under this item.
		report is based on translations from the original language into the following language h is the language of a translation furnished for the purposes of:
•		international search (under Rules 12.3 and 23.1 (b))
		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
2.	furnished i filed" and	d to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally are not annexed to this report):
	the in	ternational application as originally filed/furnished
	X the de	escription:
<sub>.</sub>		pages 4-10 as originally filed/furnished
/ . 		pages 1-3 received by this Authority on 20 September 2005 with the letter of 20 September 2005.  pages* received by this Authority on with the letter of
	X the cl	
		pages as originally filed/furnished
		pages* as amended (together with any statement) under article 19
	•	Pages 11-13 received by this Authority on 20 September 2005 with the letter of 20 September 2005
	[72] 41 - 4-	pages* received by this Authority on with the letter of
	X the dr	awings:
	• •	pages 1-7 as originally filed/furnished pages* received by this Authority on with the letter of
		pages* received by this Authority on with the letter of
	a sequ	nence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
<b>3.</b> <sub>1.</sub>	The a	mendments have resulted in the cancellation of:
		the description, pages
)		the claims, Nos.
	F	the drawings, sheets/figs
•		the sequence listing (specify):
.*	<u> </u>	any table(s) related to the sequence listing (specify):
4.		eport has been established as if (some of) the amendments annexed to this report and listed below had not been
	made, 70.2(d	since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule
		the description, pages
		the claims, Nos.
	<u></u>	the drawings, sheets/figs
	-	the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
*	If item 4 ap	plies, some or all of those sheets may be marked "superseded."

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/SG2004/000281

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement							
N	ovelty (N)	Claims 1-1	3	٠.	· . ·		YES
		Claims					NO
In	ventive step (IS)	Claims 1-1	<b>3</b> .				YES
		. Claims	·,	٠	· ·	:-	NO
In	dustrial applicability (IA)	Claims 1-1	3	· · ·		·.	YES
		Claims	•		•	: · · · · ·	NO

## 2. Citations and explanations (Rule 70.7)

DE 20209770 U (KUO) 26 September 2002

GB 2063959 A (ERNO RAUMFAHRTTECHNIK GmbH) 10 June 1981

DE 10219709 A (MULLER) 7 November 2002

DE 3718052 A (KNAUER) 8 December 1988

EP 777022 A (SHIINA) 4 June 1997

EP 390149 B (FUJI JUKOGYO KK) 10 August 1994

DE 3731178 A (KNAUER) 30 March 1989

## Novelty & Inventive step - Claims 1 - 13

The citations all disclose collapsible structural assemblies that have multiple members, multiple hinges connected to each member and a variety of collapsible and locking mechanisms. However, none disclose a structure with all the features of claims 1 or 11. The specific features of the central element being detachable and a hinge element being stabilised when attached to the central member is not disclosed in the citations, nor would it be inferred or necessarily developed from any citation.

Hence, claims 1-13 are novel and have an inventive step